



UNIT -IV

Management Information System

Functional Applications of Information System



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Management Information Systems

Unit 6:

Functional Applications of Information System

IS Classifications by Scope



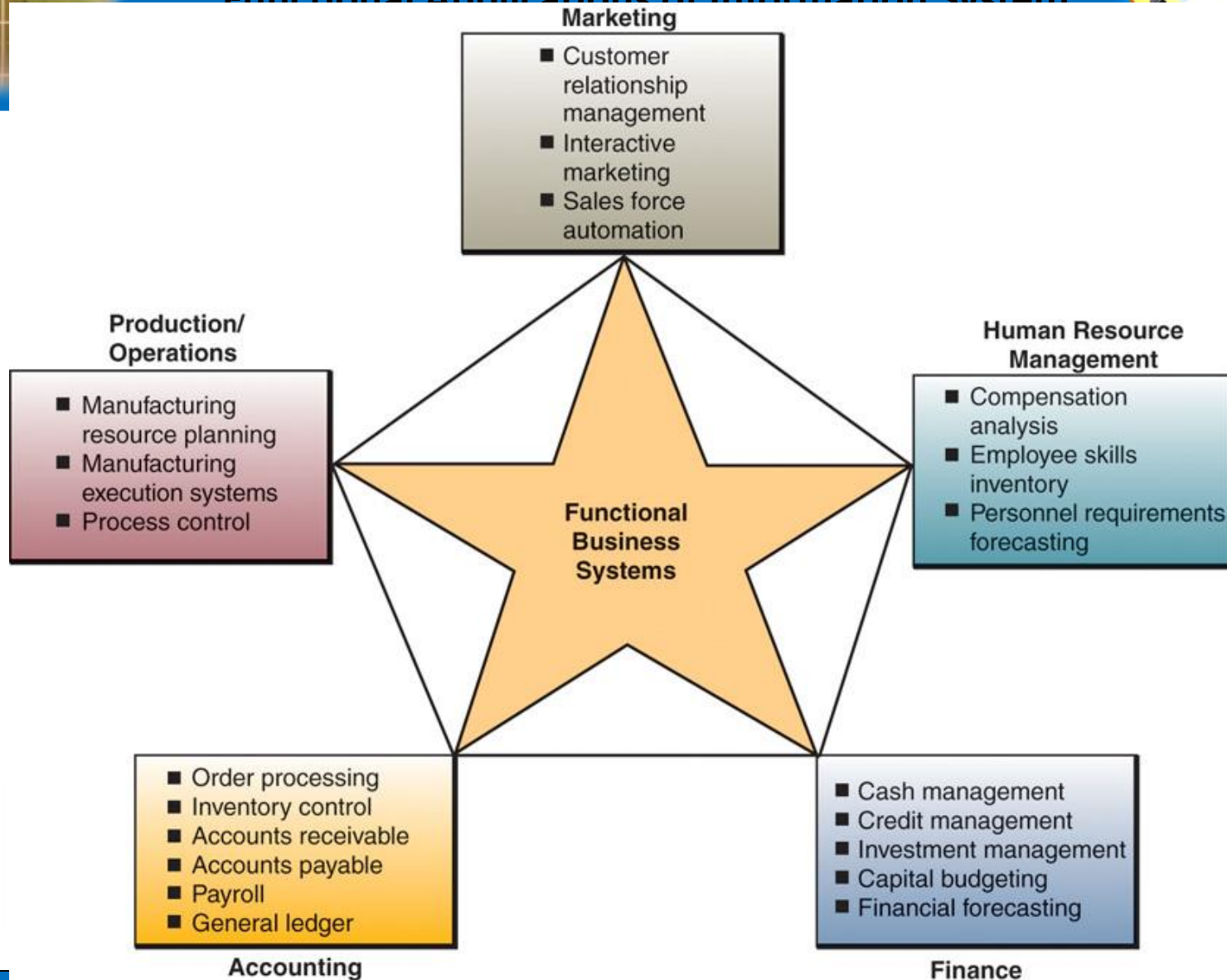
Functional Business Systems support basic business functions

- Information systems that support the business functions of accounting, finance, marketing, operations management, and human resource management

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Marketing Systems





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Interactive Marketing



Customer-focused marketing process that is based on using the Internet, intranets, and extranets to establish two-way transactions between a business and its customers or potential customers

Goal:

Use networks to attract and keep customers who will become partners with the business in creating, purchasing, and improving products and services

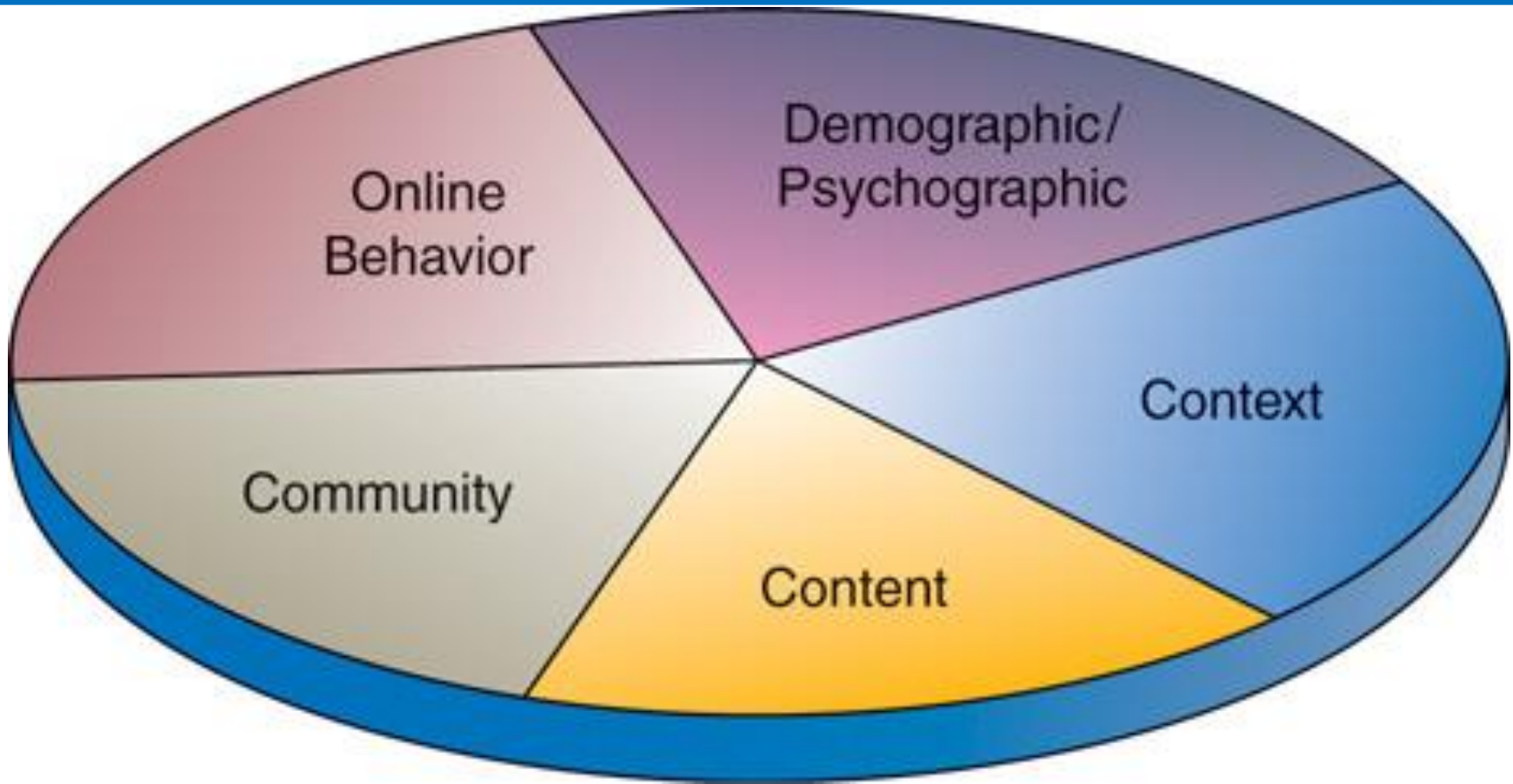
Targeted Marketing

Tool for developing advertising and promotion

initiatives, as well as its traditional business venues



Targeted Marketing Components





Targeted Marketing Components

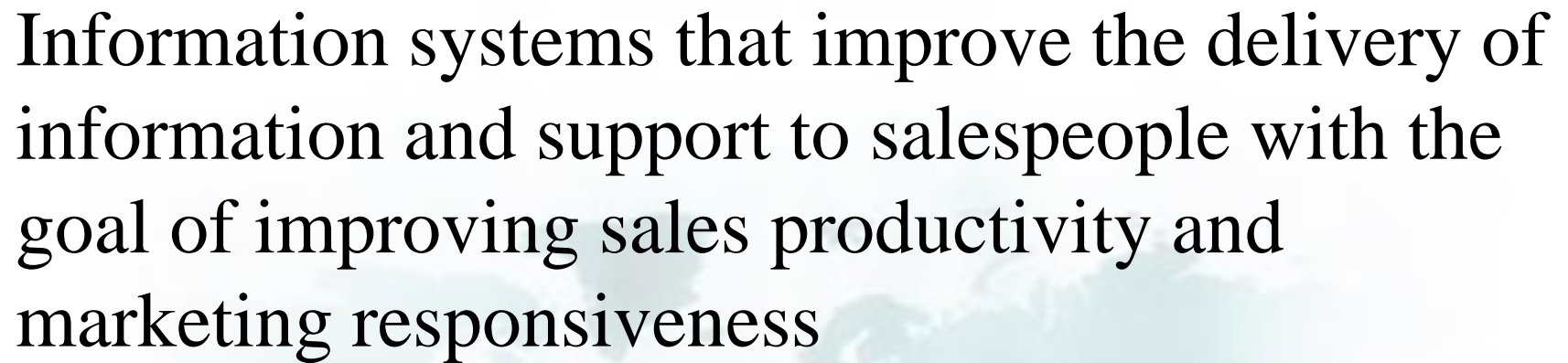
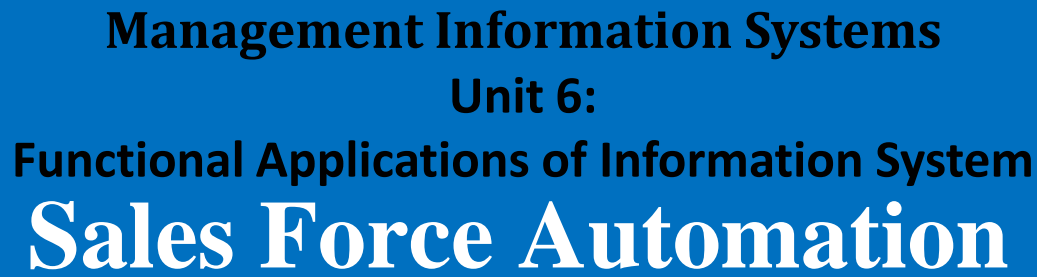
Community customize advertising to appeal to people of specific virtual communities

Content advertising placed on a variety of selected websites

Context advertising placed on web pages that are relevant to the content of a product or service

Demographic/Psychographic web marketing efforts aimed at specific types or classes of people

Online Behavior promotion efforts tailored to each visit to a site by an individual





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Manufacturing Systems



Information systems that support the production/operations function that includes all activities concerned with the planning and control of the processes producing goods and services



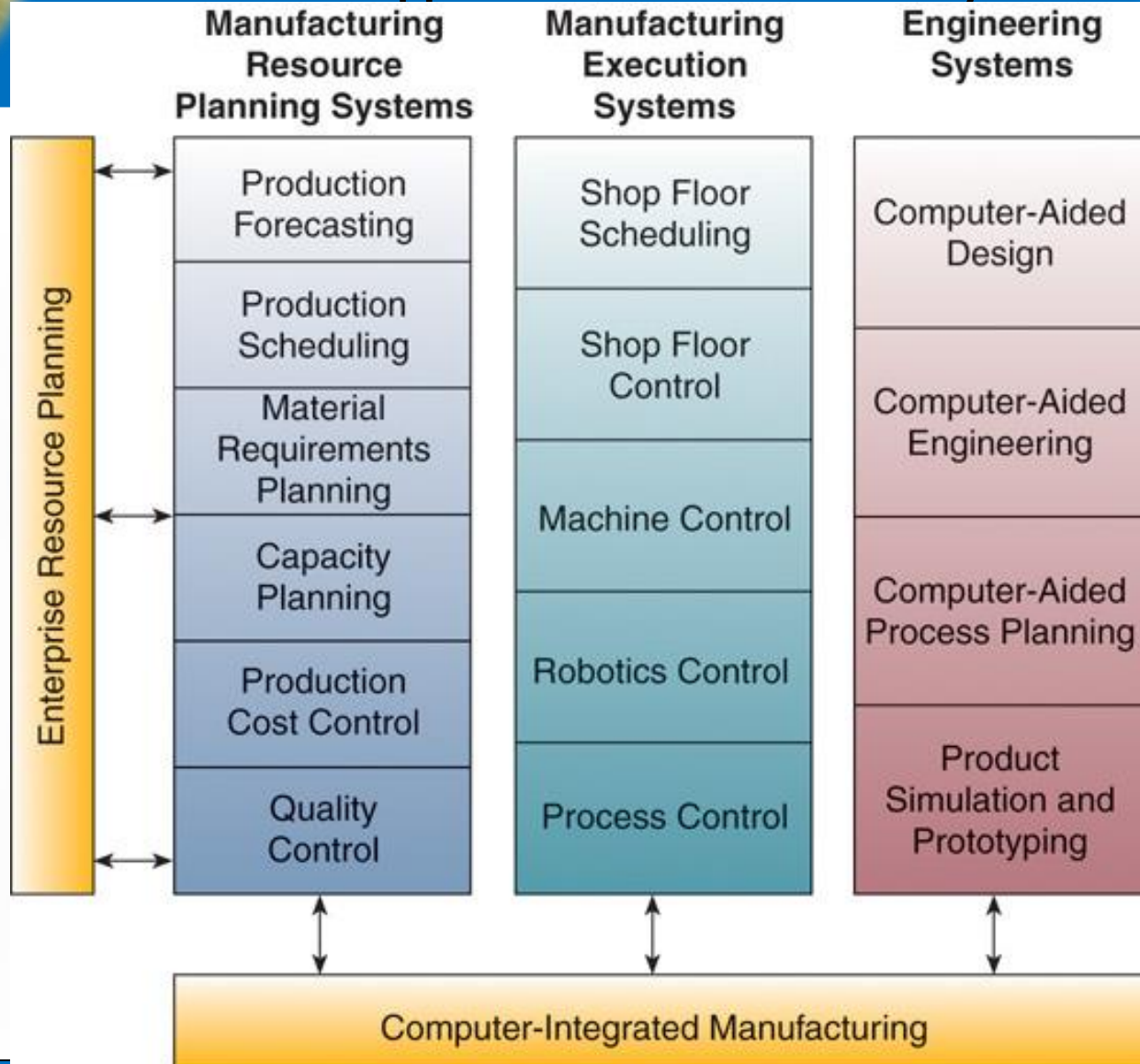
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Manufacturing Systems





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Computer-Integrated Manufacturing (CIM)



Objectives:

Simplify production processes, product designs, and factory organization as a vital foundation to automation and integration

Automate production processes and the business functions that support them with computers, machines, and robots

Integrate all production and support processes using computer networks, cross-functional business software, and other information technologies



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CIM Systems



Computer-aided manufacturing (CAM) -
Information systems that automate the production process

Manufacturing execution systems (MES)
performance monitoring information systems for factory floor operations. They mainly monitor, track and control materials, equipment, personnel, instructions and specifications and production facilities

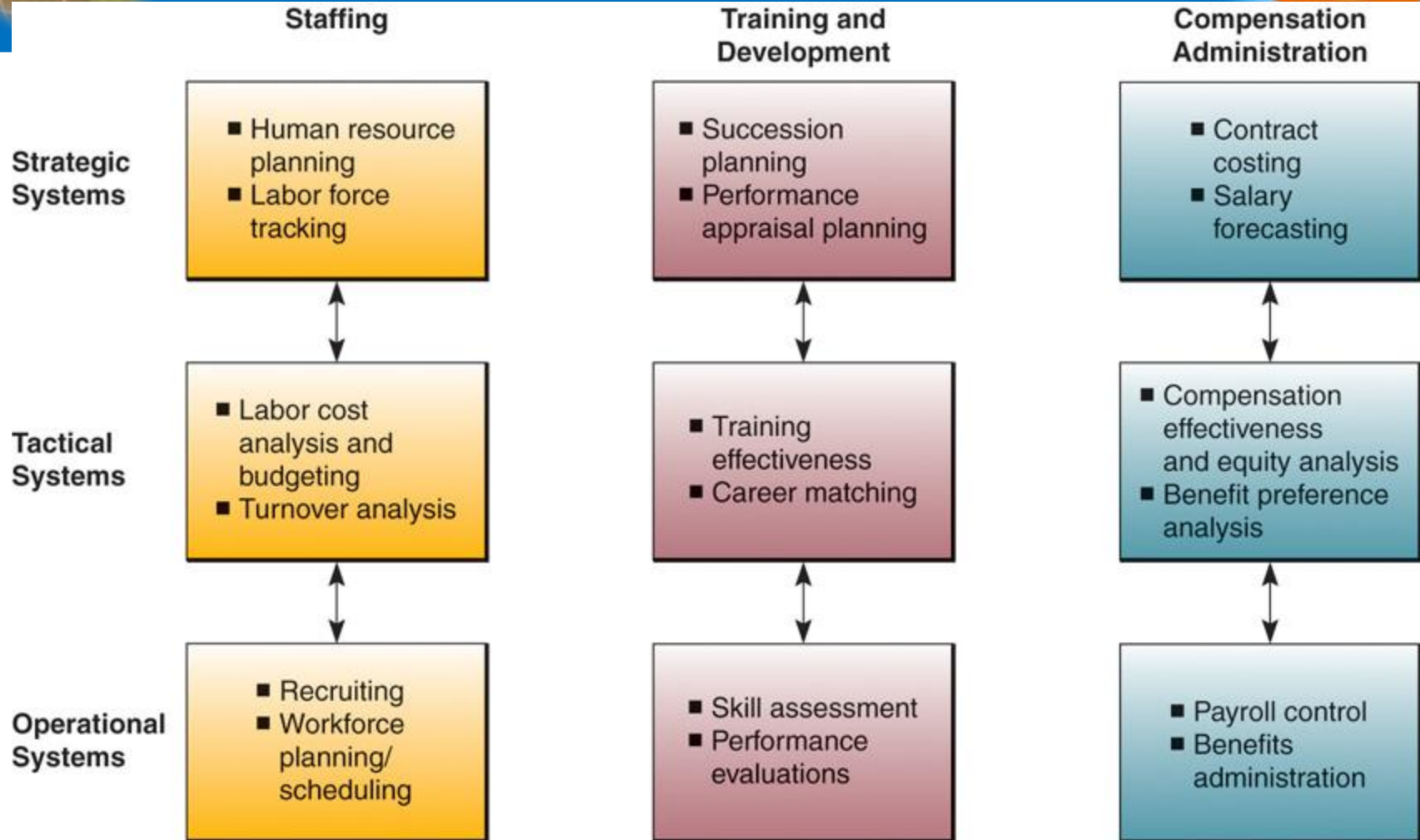
Process Control control ongoing physical processes

Machine Control controls the actions of machines

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HRM and the Internet



Recruiting employees through recruiting services and databases on the World Wide Web

Posting messages in selected Internet newsgroups

Communicating with job applicants via e-mail



HRM and Corporate Intranets



Process common HRM applications

Allow HRM department to provide around-the-clock services

Disseminate valuable information faster than through previous company channels

Collect information from employees online

Allow managers and other employees to perform HRM tasks with little intervention by the HRM department

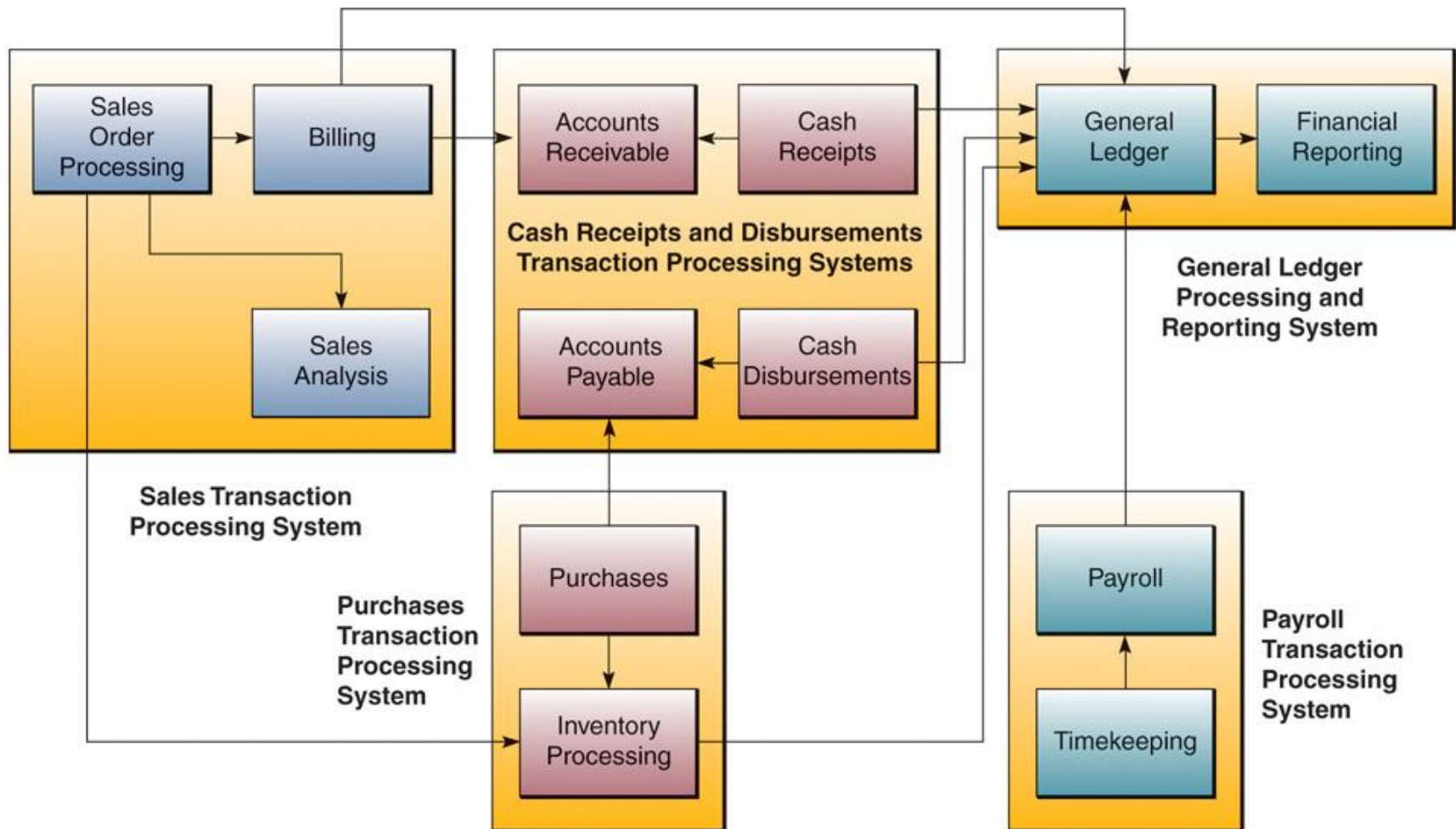


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Accounting Information Systems





Common Business Accounting Systems

Order Processing Captures and processes customer orders and produces data for inventory control and accounts receivable

Inventory Control Processes data reflecting changes in inventory and provides shipping and reorder information

Accounts Receivable Records amounts owed by customers and produces customer invoices, monthly customer statements, and credit management reports

Accounts Payable Records purchases from, amounts owed to, and payments to suppliers, and produces cash management reports

Payroll Records employee work and compensation data and produces paychecks and other payroll documents and reports

General Ledger Consolidates data from other accounting systems and produces the periodic financial statements and reports of the business

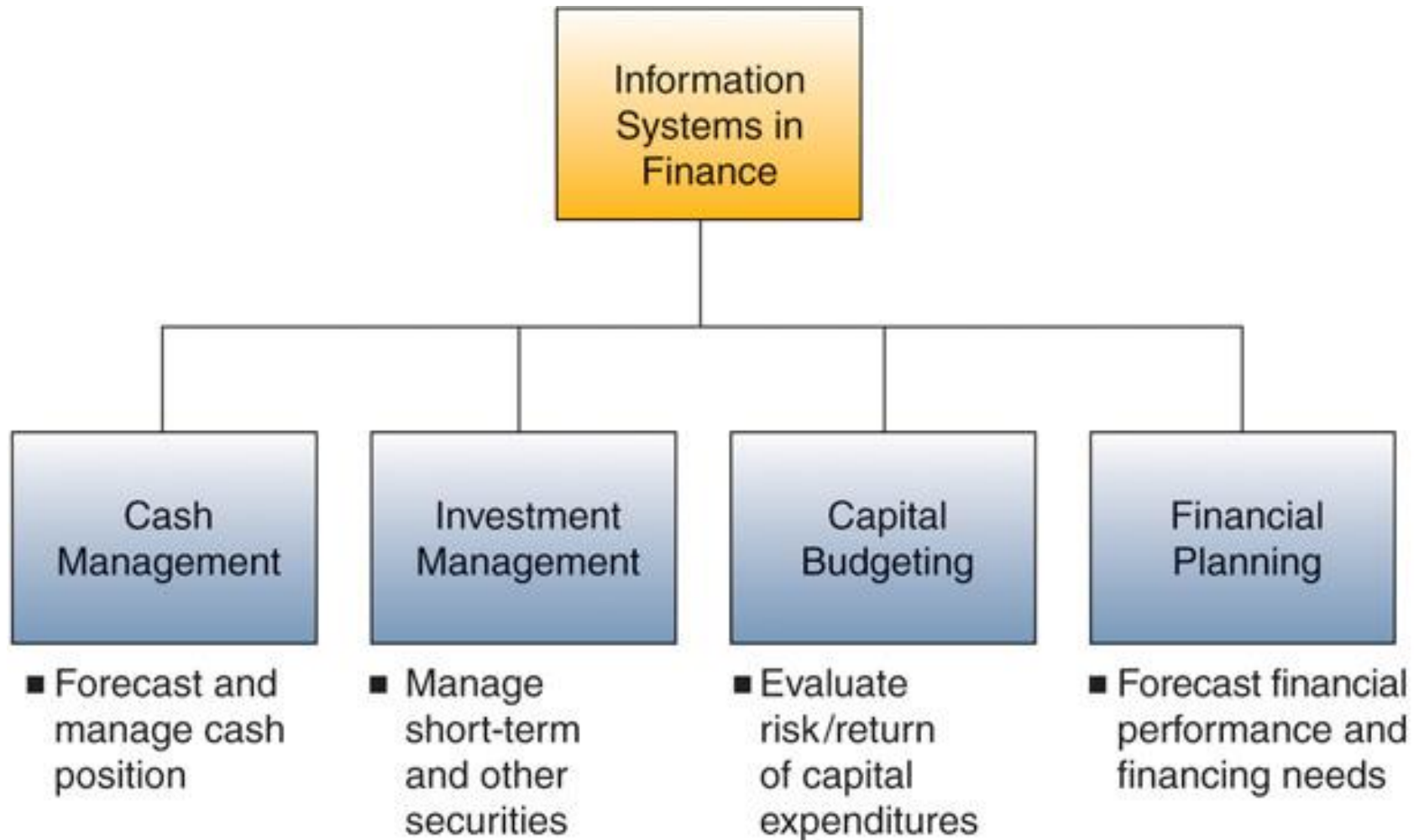


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Financial Management Systems



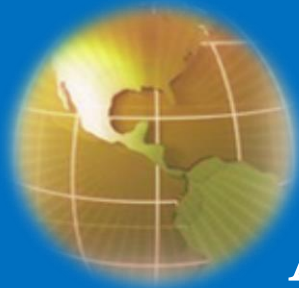


Financial Management Systems



Capital Budgeting evaluating the profitability and financial impact of proposed capital expenditures

Financial Planning evaluating the present and projected financial performance of a business



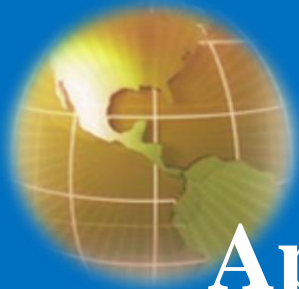
Application of Functional Systems



Computer Reservation System (CRS),

A **computer reservations system** or **central reservation system (CRS)** is a **computerized system** used to store and retrieve information and conduct transactions related to air travel, hotels, car rental, or activities. Originally designed and operated by airlines, CRSes were later extended for the use of travel agencies.



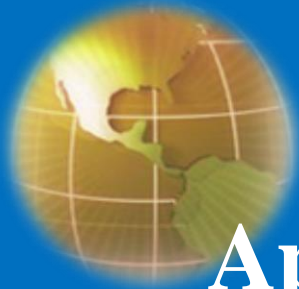


Application of Functional Systems

Global Distribution System (GDS),

A **Global Distribution System (GDS)** is a network operated by a company that enables automated transactions between travel service providers (mainly airlines, hotels and car rental companies) and travel agencies.





Application of Functional Systems

Property Management Systems (PMS),

Property management systems also known as PMS or Hotel Operating **System** (Hotel OS), under business terms may be used in real estate of mind, manufacturing, logistics, intellectual **property**, government or hospitality accommodation **management**.





Application of Functional Systems

Point of Sales Systems (POS)

A retail **point of sale system** typically includes a cash register (which in recent times comprises a computer, monitor, cash drawer, receipt printer, customer display and a barcode scanner) and the majority of retail **POS systems** also include a debit/credit card reader.





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Questions??